



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

October 18, 2012

Sent Via Email – majones@hendersoncountync.org

Mr. Marcus Jones
Henderson County
Director of Engineering
802 Stoney Mountain Road
Hendersonville, NC 28791

Re: *Nature and Extent Study: Detections of Volatile Organic Compounds in Groundwater*
Henderson County Closed MSW Landfill
Solid Waste Section Permit Number 45-01
DIN 17474

Dear Mr. Jones:

The Solid Waste Section has completed a review of the *Nature and Extent Study: Detections of Volatile Organic Compounds in Groundwater* dated July 23, 2012 (DIN 17440) and submitted on behalf of Henderson County by Golder Associates NC, Inc. for the Henderson County Closed MSW Landfill. The *Nature and Extent Study: Detections of Volatile Organic Compounds in Groundwater* was submitted in accordance with 15A NCAC 13B .1634.

The nature and extent study included the review of local geology, recent and historical analytical water quality data and their trends, the evaluation of geochemical data, plume characterization, and the evaluation of facility attenuation processes. Based upon this study, two groundwater plumes of concern were identified and the following recommendations were proposed:

- In accordance with 15A NCAC 13B.1635, an *Assessment of Corrective Measures* should be prepared and a public meeting should be held to discuss the corrective measures assessment prior to the selection of the remedy;
- In accordance with 15A NCAC 13B.1634(g)(1)(C), and based upon NC 2L Groundwater Standard exceedances detected near the downgradient property line, Henderson County should notify all persons who own or reside on the land that directly overlies or potentially overlies part of the plume of contamination. Copies of the notification letters will be included within the *Assessment of Corrective Measure Report*;
- Offer to supply municipal water to residences that could potentially be affected by the groundwater plumes; and
- Relocate surface water monitoring locations BR-2 and BR-3 downstream to the property boundary of each respective stream.

As a result, the *Nature and Extent Study: Detections of Volatile Organic Compounds in Groundwater* is approved as described. Henderson County is now required to evaluate, identify, and implement the proper selected remedy in order to effectively reduce the facility's groundwater contamination.

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Pursuant to 15A NCAC 13B .1635, Henderson County is required to perform an Assessment of Corrective Measures. Please submit an Assessment of Corrective Measures (ACM) Report to the Solid Waste Section within 90 days of receipt of this letter.

Also, in accordance with 15A NCAC 13B .1635, Henderson County is required to conduct a public meeting to discuss the results of the Assessment of Corrective Measures. Following the public meeting, Henderson County shall select a remedy in accordance with 15A NCAC 13B .1636, and within 14 days of selecting a remedy, submit the North Carolina Groundwater Corrective Action Permit Modification Application which shall include the selected remedy and the contingency plans for the facility (http://www.wastenotnc.org/swhome/EnvMonitoring/NCSWGWCAPermitMod_20080215.pdf). The Solid Waste Section will then review the County's selected remedy and the associated application.

Once the Solid Waste Section approves the County's selected remedy, Henderson County is then required to submit a Corrective Action Plan. The Solid Waste Section will review the County's Corrective Action Plan, approve, or request additional information prior to its implementation. Finally, pursuant to 15A NCAC 13B .1637, the County shall implement the approved Corrective Action Plan.

If you have any questions or concerns regarding this letter, please contact me at 919-707-8294 or by email at jaclynne.drummond@ncdenr.gov. Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond
Compliance Hydrogeologist
Solid Waste Section

cc via email: Mark Poindexter, Field Operations Supervisor
Jason Watkins, Western District Supervisor
Andrea Keller, Environmental Senior Specialist
Larry Frost, Permitting Engineer
Natalie Berry, Henderson County Assistant Engineer
Dusty Reedy, Golder Associates NC, Inc.